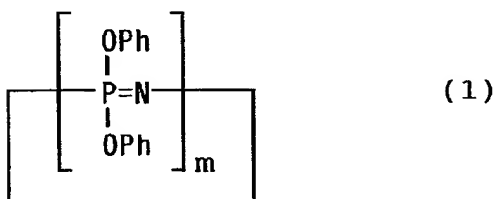


# CLAIMS

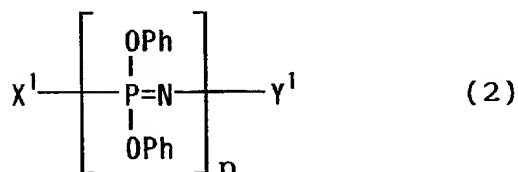
1. A flame-retardant resin composition which comprises a flame retardant comprising a phosphazene compound and a phenolic resin, and a polyalkylene terephthalate-series resin, wherein the phosphazene compound comprises at least one member selected from the group consisting of:

(1) a cyclic phenoxyphosphazene compound of the formula :



wherein m is an integer of 3 to 25, and Ph denotes a phenyl group,

(2) a linear phenoxyphosphazene compound of the formula :



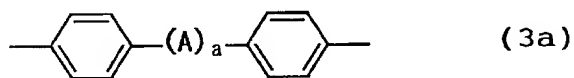
wherein  $\text{X}^1$  represents the group  $-\text{N}=\text{P}(\text{OPh})_3$  or the group  $-\text{N}=\text{P}(\text{O})\text{OPh}$ ;  $\text{Y}^1$  represents the group  $-\text{P}(\text{OPh})_4$  or the

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group  $-P(O)(OPh)_2$ ; n is an integer of 3 to 10,000; and Ph has the same meaning as defined in the formula (1), and

(3) a crosslinked phenoxyphosphazene compound which is formed by crosslinking at least one

5 phenoxyphosphazene compound selected from the group consisting of the cyclic phenoxyphosphazene compound (1) and the linear phenoxyphosphazene compound (2) with at least one crosslinking group selected from the group consisting of o-phenylene group, m-phenylene group, p-  
10 phenylene group, and a bisphenylene group shown by the formula (3a):



wherein A represents  $-C(CH_3)_2-$ ,  $-SO_2-$ ,  $-S-$  or  $-O-$ , and a denotes 0 or 1, and

15 wherein the proportion of the crosslinking group in the crosslinked phenoxyphosphazene compound is, in terms of phenyl group, 0.1 to 50 mol% relative to the total phenyl groups in the phenoxyphosphazene compounds (1) and  
20 (2).

2. A resin composition according to Claim 1, wherein the polyalkylene terephthalate-series resin comprises a polyethylene terephthalate-series resin or a polybutylene terephthalate-series resin.

25 3. A resin composition according to Claim 1,

wherein the phenolic resin comprises at least one member selected from the group consisting of a phenol-novolak resin, a phenol-aralkyl resin and a polyvinylphenolic resin.

5                   4. A resin composition according to Claim 3,  
wherein the phenol-aralkyl resin comprises a reaction  
product of a phenol and an aralkyl compound, and the  
polyvinyl phenolic resin comprises a homopolymer of a  
polyvinylphenol or a copolymer of a polyvinyl phenol and  
10                   a copolymerizable monomer.

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15                   5. A resin composition according to Claim 3,  
wherein the phenol-novolak resin comprises at least one  
member selected from the group consisting of (a) a random  
phenol-novolak resin, (b) a high-ortho phenol-novolak  
15                   resin, (c) a triazine-modified phenol novolak resin and  
(d) a phenol-novolak resin containing a free monomer  
component and/or a dimmer component in small amounts.

20                   6. A resin composition according to Claim 3,  
wherein the phenol-novolak resin comprises a phenol-  
novolak resin in which the total amount of a free monomer  
component and a dimmer component is not more than 20 % by  
weight relative to the whole resin.

25                   7. A resin composition according to Claim 1,  
wherein the flame retardant comprises the phosphazene  
compound and the phenolic resin in the proportion of the  
former/the latter = 5/95 to 95/5 (weight ratio).

8. A resin composition according to Claim 1,

wherein the amount of the flame retardant is 1 to 100 parts by weight relative to 100 parts by weight of the polyalkylene terephthalate-series resin.

9. A flame-retardant resin composition which  
5 comprises a flame retardant comprising a phenolic resin and a phosphazene compound recited in Claim 1, and a polyalkylene terephthalate-series resin, wherein the phenolic resin comprises at least one member selected from the group consisting of a phenol-novolak resin, a phe-  
10 nol-aralkyl resin and a polyvinylphenolic resin, the flame retardant comprises the phosphazene compound and the phenolic resin in the proportion of the former/the latter = 20/80 to 80/20 (weight ratio), and the amount of the flame  
15 retardant is 5 to 90 parts by weight relative to 100 parts by weight of the polyalkylene terephthalate-series resin.

10. A resin composition according to Claim 1 or 9, which further comprises at least one member selected from the group consisting of a nitrogen-containing flame retardant, a phosphate-series flame retardant and a  
20 carbonizable resin.

11. A resin composition according to Claim 10, wherein the nitrogen-containing flame retardant comprises at least one member selected from the group consisting of a melamine or a derivative thereof, a melamine condensate,  
25 a cyanurate of a melamine or a derivative thereof, and a salt of a pyrophosphoric acid or a polyphosphorus acid with a triazine derivative.

12. A resin composition according to Claim 10, wherein the phosphate-series flame retardant comprises at least one member selected from the group consisting of a phosphate and a polyphosphate.

5           13. A resin composition according to Claim 10, wherein the carbonizable resin comprises at least one member selected from the group consisting of a polycarbonate-series resin, a polyarylate-series resin, an aromatic epoxy resin, a polyphenylene oxide-series  
10 resin and a polyphenylene sulfide-series resin.

14. A resin composition according to Claim 1 or 9, which further comprises at least one member selected from the group consisting of an antioxidant, a thermal stabilizer, a drip inhibitor and a filler.

15           15. A process for producing the flame-retardant resin composition, which comprises mixing a polyalkylene terephthalate-series resin and a flame retardant recited in Claim 1.

16. A molded article formed with a flame-  
20 retardant resin composition recited in claim 1.

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